

LSN50 V3 Product Specifications for Approval

Customer name:

Antenna band: 900-915MHz

edition: A0

Date of manufacture: 2023-10-25

ID: FS-WZ-JB-242

Product characteristic specification sheet

一、 Basic product characteristics:

Product type: Glue stick antenna -915MHz-SMA male female needle -L=105MM	
DESCRIPTION	VALUE
Operating frequency band	900-915MHz
Characteristic impedance	50 Ω
Voltage standing wave ratio	Contrast sample waveform
gain	2DBi
on-resistance	0.5 Ω
Insulation resistance	30 Ω
Dc voltage	300V
power	1W
Joint type	SMA
Operating temperature	-45℃~+85℃
Storage temperature	-45℃~+85℃

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1. Summary :

This report to account for the measurement setup and result of the Antenna. The measurement setup includes s-parameter, The measured data for Antenna are presented and analysis.

2. S-Parameter Measurement :

A. Reflection coefficient :

(a) Instrument (仪器) : Network Analyzer (网络分析仪).

(b) Setup 建立:

(1) Calibrate the Network Analyzer by one port calibration using O.S.L. calibration kits.

(2) Connect the antenna under test to the Network Analyzer.

(3) Measure the S11(reflection coefficient) shown in Fig. 1.

(4) Generally, the S11 is less than -10dB to ensure the 90% VSWR 2.0:1 power into antenna and only less than 10% power back to system.

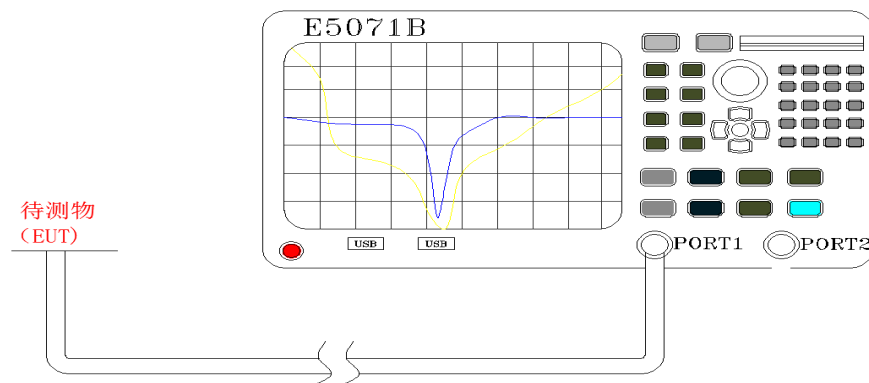


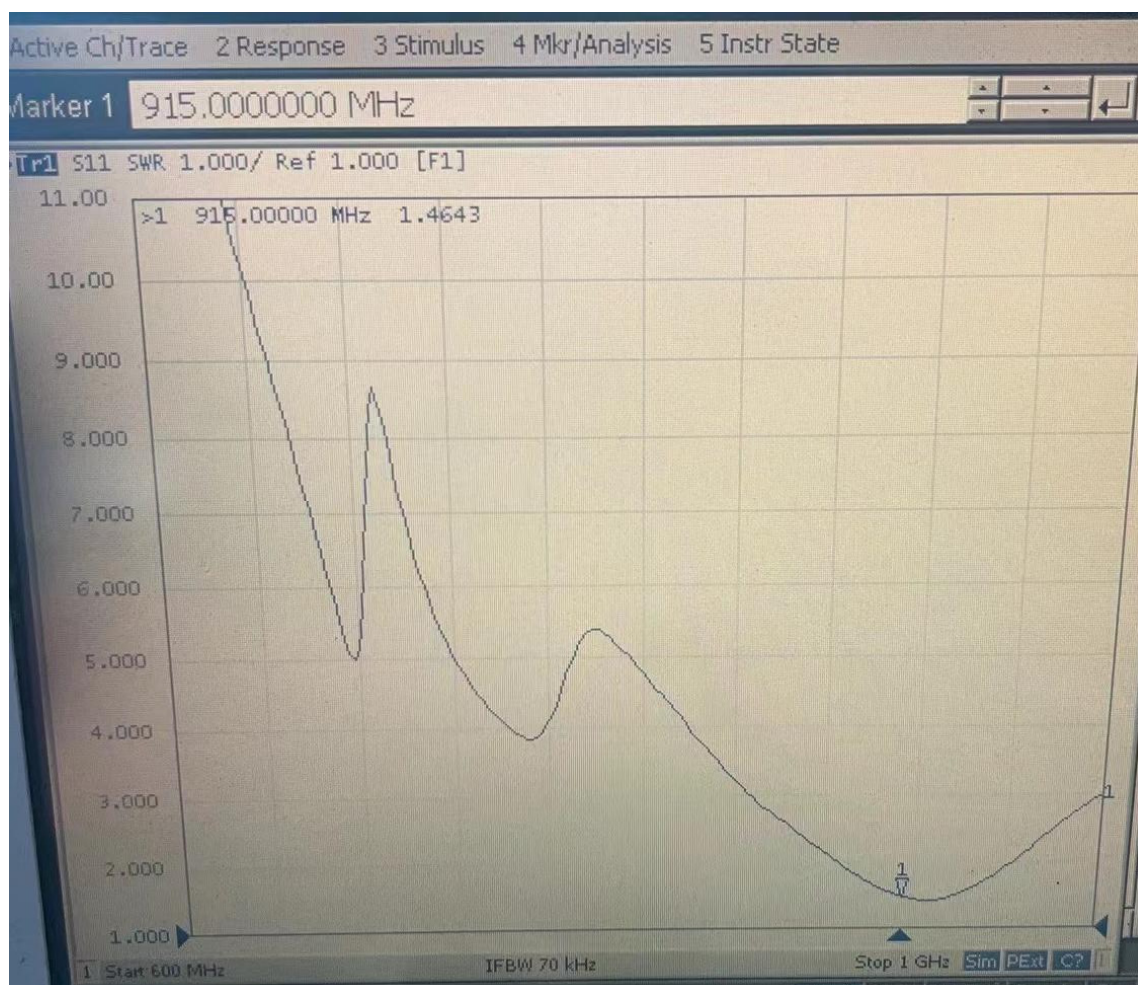
Fig.1 Antenna measured in Network Analyzer

3. S-Parameter Measurement Result :

S-Parameter test data :

Frequency MHz Operating frequency band	915
Standard loss DB value	1.46

S-Parameter test image :



Antenna profile:



915MHz

